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Proposed Priority Research Deficiencies
of
Sino-Soviet Bloc Shipbuilding

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Subject Requiring Research	Aspects to be Emphasized	End Uses of Research Study or Other Reasons for Priority	Title of Research in Process or Planned	Recommended Action
I. Methodology for estimating the maximum capability and the limitations of a shipyard for the production of both naval and merchant vessels.	The development of a standard, concise method of utilizing the basic data of shipyard facilities, availability of components and material, labor, techniques, etc., for estimating the potential productive capacity of a given shipyard.	Present estimates of shipbuilding capabilities, made by the various agencies, differ widely because of lack of uniformity in evaluating the influence of various factors upon possible maximum production capability.	A working group of the EIC sub-committee on shipbuilding is currently working on this problem.	It is recommended that work on this problem continue with high priority.
		If a standard method can be derived which is in agreement with factual production data, it would be valuable to U.S. mobilization planners as well as to the intelligence agencies.		

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II. Studies of Major ship- building components manufactured by com- ponent plants and shipyards.	The identification of plants and shipyards in the Sino-Soviet Bloc countries producing the major ship components. Also production capacity estimates and association of specific supporting plants with specific shipyards.	To determine the pattern of flow of components in the shipbuilding industry in order to assist in determining the capability, possible bottle- necks, and the mobilization potential of the shipbuilding industry.	ONI and CIA plan research studies of marine boilers and turbines, ships re- duction gears, steel plates, steering gears, winches, and pumps on the U.S. S. R.	ONI and CIA com- plete studies planned avoiding dupli- cation. Upon com- pletion, these studies should be reviewed and a decision made as to the necessity and possibility of further research in these fields.

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III. Input requirements of the shipbuilding industry showing the materials, power, and manpower for each type of vessel.	Input coefficients for each class and size of vessel will be established based on U.S. or similar practice. Where possible similar coefficients will be established for Soviet practice. The coefficients will be broken down to show those normally required within the shipyard and those normally required by the component or other supporting industries which supply the shipyard with finished or semi-finished material. Viz. the materials, manpower, etc. required to produce the machinery, etc. will be included; however, those required to produce the raw steel will not be included, the unfabricated steel being considered a raw material.	These data are necessary to estimate the drain of the shipbuilding industry on the economy of Bloc countries.	F. Y. 56 CIA plans include a study of input requirements of the U.S.S.R. shipbuilding industry. ONI presently is obtaining data on naval vessels from the Bureau of Ships and the Bureau of Ordnance. CIA has completed a tabulation of input coefficients which is now being reviewed by a working group of the EIC subcommittee on shipbuilding.	CIA should develop input requirements for merchant and inland vessels and ONI for naval vessels. These studies should then be prepared as a sub-committee working paper and made available to all interested agencies.

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IV. Economic aspects of major shipyards.	Plans and programs; plan fulfillment; value of capital facilities and production equipment; past and future planned increase in capital investment; convertability; production by number, type tonnage and value etc., source of supply of materials and components; labor productivity; technology of materials and production methods; transportation requirements; education and training programs; biographic data; economic weaknesses.	To improve the basis for assessing the economic importance, capability and intentions of the individual yards and of the shipbuilding industry as a whole.	CIA (ORR) is continuing studies of major shipyards in the U. S. S. R. as priorities and manpower permit. [REDACTED] has four U. S. S. R. shipyard studies in process. ONI now has in process studies of all shipyard facilities in the U. S. S. R.	ONI to include as many of the requirements as feasible in their continuing studies of shipyard facilities, CIA to make additional studies as necessary.

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V. Studies of minor and small shipyards of the Sino-Soviet Bloc.	Principal facilities, production, technological, and economic aspects.	For estimating the maximum production capability to construct the smaller types of both merchant and naval vessels.	CIA (ORR) has completed studies in 7 of the 12 economic regions of the U. S. S. R. ONI has in process for completion in F. Y. 56 NIS studies on Rumania, Hungary, Communist China.	CIA, ONI and AFON complete the phase of work now in process and coordinate planning for future studies.
<p>NIS Section 35 and Supplement I for U. S. S. R. are now in process in ONI. These NIS contributions will treat this category of shipyards in appropriate textual and/or tabular detail where the yards are located in principal or secondary ports; and in tabular form to include adequate details of building and repair facilities where located in minor seaports or sited inland.</p>				

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VI. Production and repair of merchant ships under 1,000 GRT, inland and fishing craft.	Past and current production by number, size, type, etc.	Required to combine with III and IX to show economic importance and total economic requirements of the industry.	CIA, ONI and AFOIN have projects scheduled which will partially meet the deficiency in merchant ship production estimates for the U. S. S. R., Rumania, Hungary and Com-China.	Studies to fill the remaining gaps should be schedule as early as possible.
VII. Imports and exports of materials, components, and new vessels within the Sino-Soviet Bloc.	Number, type, tonnage, and value of new vessels; type, amount, and value of materials and components imported or exported intra-Bloc; number, type, and tonnage of vessels repaired in or for other Bloc countries, and value of such repairs.	To assist in assessing the interdependence of bloc countries within themselves.	CIA is required each year to make estimates of this nature. ONI also prepares studies on this subject.	CIA prepare estimates of intra-Bloc shipbuilding industry movement and coordinate with ONI through the Subcommittee on Shipbuilding.

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VIII. Employment in the shipbuilding industry.	Present employment, education and training, estimated future available trained labor force, present and estimated future labor productivity.	Correlate with shipyard studies and with I, II, and III to estimate future capabilities and intentions.	CIA and ONI have in process NIS Section 64E on Rumania Hungary, USSR and Com-China which will partially meet this requirement.	ONI complete NIS studies.
IX. Costs	Cost of production by type, size, etc., as listed in VI, in US dollars and in native currency.	Necessary to show economic importance, economic drain on the national economy by relation to other items in the national budgets.	CIA has studies scheduled on USSR for two types of vessels in F. Y. 57.	Additional studies be scheduled for future research by CIA with assistance from ONI.
X. Capital investment in the industry.	Value of facilities in 1946 planned and actual capital investment 1946 to present, estimated future capital investment.	Required to coordinate with VI to arrive at real cost as compared with US costs. Correlated with shipyard studies and with I, II and III to estimate future capabilities and intentions.	None.	Future research studies be planned by CIA.